

**Gondwana University, Gadchiroli**  
**Faculty of Science & Technology**  
**Two Years Regular Post Graduate Program: M.Sc. (Physics)**  
**Semester-I**

**Course and Examination Scheme- 2023-2024**

Course Code.	Name of Subject	Total Credit	Lectures (L)	Tutorials (T)	Practical (P)	Total Hrs	University Examination								
							Theory					Practical			
							UA	CA	Total mark	Duration of Exam (Hrs)	Min Passing	UA	CA	Total marks	Min Passing
01MSCPH1	Semiconductor Physics and Device	04	04	--	--	04	80	20	100	3	40	--	--	--	--
01MSCPH2	Electrodynamics	03	03	--	--	04	80	20	100	3	40	--	--	--	--
01MSCPH3	Mathematical Physics	03	03	--	--	04	80	20	100	3	40	--	--	--	--
<b>Elective- I (Any One)</b>															
01MSCPH4.1	Complex Analysis and Numerical Method	04	04	--	--	04	80	20	100	3	40	--	--	--	--
01MSCPH4.2	Astrophysics														
01MSCPH4.3	Engery Physics														
01MSCPH4.4	Introduction to Python														
01MSCPH4.5	Biophysics														
01MSCPH5	Research Methodology	04	04			04	80	20	100	3	40	--	--	--	--
01MSCPH6	Practical -I	02	--	--	02	04	--	--	--	--	--	30	20	50	25
	Total	20	18		02	22	400	100	500	--	--	30	20	50	--

**Gondwana University, Gadchiroli**  
**Faculty of Science & Technology**  
**Two Years Regular Post Graduate Program: M.Sc. (Physics)**  
**Semester-II**

**Course and Examination Scheme- 2023-2024**

Course Code.	Name of Subject	Total Credit	Lectures (L)	Tutorials (T)	Practical (P)	Total Hrs	University Examination									
							Theory					Practical				
							UA	CA	Total mark	Duration of Exam (Hrs)	Min Passing	UA	CA	Total marks	Min Passing	
02MSCPH1	Fundamental of Quantum Mechanics	04	04	--	--	04	80	20	100	3	40	--	--	--	--	
02MSCPH2	Solid State Physics	03	03	--	--	04	80	20	100	3	40	--	--	--	--	
02MSCPH3	Classical and Statistical Mechanics	03	03	--	--	04	80	20	100	3	40	--	--	--	--	
<b>Elective- I (Any One)</b>																
02MSCPH4.1	Advanced Optoelectronics	04	04	--	--	04	80	20	100	3	40	--	--	--	--	
02MSCPH4.2	Plasma Physics and spare Science															
02MSCPH4.3	Practical electronics															
02MSCPH4.4	Medical Physics															
02MSCPH4.5	Data Science															
02MSCPH5	* Industrial Training/ Field Project / Research Project	04	--	--	--	08	08	--	--	--	40	50	50	100	50	
02MSCPH6	** Practical II	02	--	--	--	04	04	--	--	--	--	30	20	50	25	
	Total	20	14			12	28	320	80	400	--	--	80	70	150	--

\* OJT- On Job Training with Seminar

\*\* Practical II shall be based on core subjects

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